

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise a first dimple, which is defined by ones of the plurality of edge elements, and is non-circular as viewed from above; and

said first dimple is a depression which begins at apices of a pair of edge elements and extends through the lower end of each edge element to the deepest part of the dimple at about the center thereof, wherein said depression is shaped such that there cannot be formed a circle by the intersection of any plane cutting the depression and the surface of the depression.

2. (previously presented): The golf ball of claim 1, wherein at least 80% of all the edge elements defining the dimples have a cross sectional shape that is substantially the same.

3. (previously presented): The golf ball of claim 1, wherein the edge elements have a cross-sectional shape that is circularly arcuate.

4. (original) The golf ball of claim 3, wherein the circularly arcuate cross-sectional shape is formed at a radius of curvature of 0.2 to 2.0 mm.

5. (previously presented): The golf ball of claim 1, wherein the edge elements are formed at positions within a range of 0.01 to 0.2 mm from an outer circumferential surface toward a center of the ball.

6. (previously presented): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise first dimples which are defined by ones of the plurality of edge elements and are non-circular as viewed from above; and

the plurality of edge elements include edge elements which have shapes as viewed from above that are curvilinear.

7. (previously presented): The golf ball of claim 6, wherein the plurality of edge elements additionally include rectilinear edge elements which have shapes as viewed from above that are rectilinear.

8. (previously presented) The golf ball of claim 6, wherein ones of the curvilinear edge elements have shapes as viewed from above that are circularly arcuate and are interconnected to form second dimples having shapes as viewed from above that are substantially circular.

9. (previously presented): The golf ball of claim 7, wherein:

ones of the curvilinear edge elements have shapes as viewed from above that are circularly arcuate and are interconnected to form second dimples having shapes as viewed from above that are substantially circular; and

ones of the circularly arcuate edge elements and the rectilinear edge elements are combined to form the first dimples.

10. (previously presented): The golf ball of claim 6, wherein ones of the curvilinear edge elements are combined to form the first dimples.

11. (previously presented): The golf ball of claim 7, wherein ones of the curvilinear edge elements and the rectilinear edge elements are combined to form the first dimples.

12. (previously presented): The golf ball of claim 3, wherein: the cross-sectional shape that is circularly arcuate is described by a radius having the center thereof located inside the ball; and the depression is described by a substantially large circular arc about a center located outside the ball.

13. (previously presented): The gold ball of claim 1, wherein said first dimple has a recessed bottom.

14. (previously presented): The golf ball of claim 6, wherein at least 80% of all the edge elements defining the dimples have a cross-sectional shape that is substantially the same.

15. (previously presented): The golf ball of claim 6, wherein the edge elements have a cross-sectional shape that is circularly arcuate.

16. (previously presented) The golf ball of claim 15, wherein the circularly arcuate cross-sectional shape is formed at a radius of curvature of 0.2 to 2.0 mm.

17. (previously presented): The golf ball of claim 6, wherein the edge elements are formed at positions within a range of 0.01 to 0.2 mm from an outer circumferential surface toward a center of the ball.

18. (currently amended): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise first dimples which are defined by ones of the plurality of edge elements and are non-circular as viewed from above; and

the dimples are arc-shaped in a cross-section taken along a radius of the golf ball,

wherein said first dimples have a recessed bottom, and

wherein said first dimples are shaped such that there cannot be formed a circle by the intersection of any plane cutting the depression and the surface of the depression.

19. (previously presented): The golf ball of claim 18, wherein at least 80% of all the edge elements defining the dimples have a cross sectional shape that is substantially the same.

20. (previously presented): The golf ball of claim 18, wherein the edge elements have a cross-sectional shape that is circularly arcuate.

21. (previously presented): The golf ball of claim 20, wherein the circularly arcuate cross-sectional shape is formed at a radius of curvature of 0.2 to 2.0 mm.

22. (previously presented): The golf ball of claim 18, wherein the edge elements are formed at positions within a range of 0.01 to 0.2 mm from an outer circumferential surface toward a center of the ball.

23. (previously presented): The golf ball of claim 20, wherein the cross-sectional shape that is circularly arcuate is described by a radius having the center thereof located inside the ball.

24. (cancelled)

25. (new): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise a first dimple, which is defined by ones of the plurality of edge elements, and is non-circular as viewed from above; and

said first dimple is a depression which begins at apices of a pair of edge elements and extends through the lower end of each edge element to the deepest part of the dimple at about the center thereof;

wherein the circularly arcuate cross-sectional shape is formed at a radius of curvature of 0.2 to 2.0 mm.

26. (new): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise a first dimple, which is defined by ones of the plurality of edge elements, and is non-circular as viewed from above; and

said first dimple is a depression which begins at apices of a pair of edge elements and extends through the lower end of each edge element to the deepest part of the dimple at about the center thereof;

wherein the edge elements are formed at positions within a range of 0.01 to 0.2 mm from an outer circumferential surface toward a center of the ball.

27. (new): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise first dimples which are defined by ones of the plurality of edge elements and are non-circular as viewed from above; and

the dimples are arc-shaped in a cross-section taken along a radius of the golf ball,
wherein said first dimples have a recessed bottom, and

wherein the circularly arcuate cross-sectional shape is formed at a radius of curvature of 0.2 to 2.0 mm.

28. (new): A golf ball having a surface on which are formed dimples and a plurality of edge elements that define the dimples, wherein:

the dimples comprise first dimples which are defined by ones of the plurality of edge elements and are non-circular as viewed from above; and

the dimples are arc-shaped in a cross-section taken along a radius of the golf ball;

wherein said first dimples have a recessed bottom; and

wherein the edge elements are formed at positions within a range of 0.01 to 0.2 mm from an outer circumferential surface toward a center of the ball.